

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	vehicle and ((output\$4 play\$3) near10 (audio music sound) near10 (headphone\$1 headset) near10 (rear back) near10 front near10 \$4speak\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/11/23 09:08
L2	0	vehicle and ((output\$4 play\$3) near10 (audio music sound) near10 (headphone\$1 headset) near10 (rear back) near10 front near10 \$4speak\$3 near10 (simultaneously concurrently))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/11/23 09:08
S1	104	(381/302).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 18:39
S2	2	hibino.in. and automobile and audiovisual	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 17:57
S3	0	hibino.in. and automobile and audiovisual and (adaptive same filter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 17:56
S4	0	hibino.in. and automobile and audiovisual and (adaptive and filter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 17:56
S5	0	hibino.in. and automobile and audiovisual and adaptive and filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 17:57

S6	0	hibino.in. and automobile and audiovisual and filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 17:57
S7	7	("5574443"   "5822023"   "5927784"   "5946055"   "6246449"   "6292236"   "6304173").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/26 17:57
S8	85	hibino.in. and automobile	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 17:57
S9	0	hibino.in. and automobile and audio and visual and adaptive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 18:01
S10	1	("5661881").PN.	USPAT	OR	OFF	2007/04/26 18:05
S11	1	("5661811").PN.	USPAT	OR	OFF	2007/04/26 18:18
S12	0	S11 and (visual video image)	USPAT	OR	OFF	2007/04/26 18:35
S13	1	("4532200").PN.	USPAT	OR	OFF	2007/04/26 18:35
S14	1	("4352200").PN.	USPAT	OR	OFF	2007/04/26 18:35
S16	294	mitsubishi and (automobile vehicle) and (audio same (visual image video))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 18:42
S18	92	mitsubishi and (automobile vehicle) same (audio same (visual image video))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 18:41
S19	0	mitsubishi and (automobile vehicle) and (audio same (visual image video)) and (headpho\$3 same "4"\$speak\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 18:43

S20	8	mitsubishi and (automobile vehicle) and (audio same (visual image video)) and (headpho\$3 same \$4speak\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 18:52
S21	0	"381"/\$.ccls. and (attenuat\$3 with headphone with ("10" near2 dB))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 18:54
S22	11	"381"/\$.ccls. and (attenuat\$3 decreas\$3 reduc\$4) same ( headset headphone) same ("10" near2 dB)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/04/26 18:55
S23	1	hibino.in. and automobile and audiovisual and front	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 19:12
S24	68	vehicle near20 plurality near20 audio near20 visual	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 19:41
S25	983	(381/86).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 19:59
S26	2695	(381/102-109).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 19:59
S27	4	"381"/\$.ccls. and (front near5 control\$3) near10 (back rear) near10 headphone\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 20:58
S28	19	("5661811").URPN.	USPAT	OR	OFF	2008/05/19 20:59

S29	11	("20030012389"   "20030053638"   "20030215102"   "5108335"   "5420931"   "5661811"   "6014381"   "6148253"   "6330337"   "6407733"   "6694236").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/19 21:00
S30	5	S29 and (headset headphone\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/19 21:02
S31	0	((front driver passenger) near10 control\$3 near10 (back rear) near10 (attenuat\$2 reduc\$2 decreas\$2) near20 (headphone\$1 headset\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 21:25
S32	2	vehicle and ((front driver passenger) near10 (attenuat\$3 decreas\$3) near10 (headphone\$1 headset \$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 21:26
S33	9	vehicle and ((front driver passenger) near20 (attenuat\$3 decreas\$3) near20 (headphone\$1 headset \$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 21:27
S34	13675	vehicle and ((front driver passenger) near20 (control\$4) near "20" (rear back) near20 (volume gain))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 21:29
S35	435	vehicle and ((front driver passenger) near20 (control\$4) near20 (rear back) near20 (volume gain))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 21:30
S36	2	("5661811"   "6330337").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/19 21:32
S37	368	vehicle and ((front driver passenger) near10 (operat\$3 control \$4) near10 (rear back) near10 (attenuat\$3 volume gain))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 21:35

S38	4	("5218643").URPN.	USPAT	OR	OFF	2008/05/19 21:52
S39	10	attenuat\$3 near10 (headphone\$1 headset) near10 control near10 signal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/19 22:21
S40	62	381/86,302,124.ccls. and (front near10 (rear back) near "10" speaker \$1) near20 (headphone \$1 headset\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/20 07:08
S41	8	381/86,302,124.ccls. and (front near10 (rear back) near10 speaker \$1) near20 (headphone \$1 headset\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/20 07:09
S42	9	381/86,302,124.ccls. and (front near20 (rear back) near20 speaker \$1) near20 (headphone \$1 headset\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/20 07:09
S43	17	(vehicle automo\$4) and ((front near10 (rear back) near10 speaker \$1) near20 (headphone \$1 headset\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/20 07:10
S44	7	("20030012389"   "20030053638"   "20030215102"   "5661811"   "6148253"   "6407733"   "6694236").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 07:12
S45	6	("5034996"   "5108335"   "5182522"   "5420931"   "5526434"   "55646273").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 07:13
S46	2	381/86,302,124.ccls. and (attenuat\$3 decreas \$3 reduc\$3) near20 (gain output volume amplitude) near20 (rear back) near20 (headphone\$1 headset \$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/20 07:22

S47	2	(vehicle automo\$4) and ((attenuat\$3 decreas\$3 reduc\$3) near20 (gain output volume amplitude) near20 (rear back) near20 (headphone\$1 headset \$1))	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2008/05/20 07:23
S48	6	("5034996"   "5108335"   "5182522"   "5420931"   "5526434"   "5546273").PN.	US-PGPUB; USPAT; USOOR	OR	OFF	2008/05/20 10:03
S49	15	("6330337").URPN.	USPAT	OR	OFF	2008/05/20 10:03
S50	8	("4584603"   "4866515"   "4982996"   "5034996"   "5661811"   "5666291"   "5722069"   "5775762").PN.	US-PGPUB; USPAT; USOOR	OR	OFF	2008/05/20 10:04
S51	10	381/86,302,124.ccls. and (gain output volume amplitude) near20 (rear back) near20 (headphone\$1 headset\$1)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2008/05/20 10:11
S52	7	("20030012389"   "20030053638"   "20030215102"   "5661811"   "6148253"   "6407733"   "6694236").PN.	US-PGPUB; USPAT; USOOR	OR	OFF	2008/05/20 10:13
S53	127	381/86,302,124.ccls. and (headphone\$1 headset\$1)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2008/05/20 10:22
S54	55	(vehicle automo\$4 car) and (attenuat\$3 near5 (headphone\$1 headset \$1))	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2008/05/20 10:29
S55	3	((("6181996") or ("5218643") or ("5661811")).PN.	USPAT	OR	OFF	2008/05/20 11:05

S56	8	381/86,302,124.ccls. and (front near10 (rear back) near10 speaker \$1) near20 (headphone \$1 headset\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/20 13:12
S57	0	S56 and van	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/20 13:12
S58	930	(455/345).CCLS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/20 13:19
S59	377	(455/569.2).CCLS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/05/20 13:28
S60	1	("6151400").PNL	USPAT	OR	OFF	2008/05/20 14:44
S61	76	"381"/\$.ccls. and (attenuat\$3 decreas\$3 reduc\$4) same ( headset headphone) same (zero "0")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/12/07 16:11
S62	1	"381"/\$.ccls. and (attenuat\$3 decreas\$3 reduc\$4) near5 ( headset headphone) near5 (zero "0")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/12/07 16:12
S63	4	"381"/\$.ccls. and (attenuat\$3 decreas\$3 reduc\$4) near10 (volume gain amplitude) near10 ( headset headphone) near10 (zero "0")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/12/07 16:24
S64	132	(381/302).CCLS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/12/07 16:25
S65	1032	(381/86).CCLS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/12/07 16:36

S66	135	(381/302).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 20:06
S67	3828	(381/102-109,86).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 20:06
S68	1355	(455/569.2,345).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 20:07
S69	515	(381/74,24,25).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 20:07
S70	29	"381"/\$.ccls. and vehicle and ((headphone \$1 headset) near20 (rear back) near10 \$4speak\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 20:08
S71	22	("5661811").URPN.	USPAT	OR	OFF	2009/05/07 20:12
S72	0	"381"/\$.ccls. and vehicle and ((attenuat \$3 reduc\$3 decreas\$3) near10 (headphone\$1 headset) near10 (independent\$2 separate \$2) near10 (rear back) near10 \$4speak\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 20:14
S73	0	vehicle and ((attenuat \$3 reduc\$3 decreas\$3) near10 (headphone\$1 headset) near10 (independent\$2 separate \$2) near10 (rear back) near10 \$4speak\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 20:15
S74	515	(381/74).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 21:14
S75	2	((("5614592") or ("5623308")).PN.	USPAT; USOCR	OR	OFF	2009/05/08 12:45

S76	307	(348/588).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/08 12:46
S77	3958	(381/102-109,86).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/11/20 14:51
S78	141	(381/302).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/11/20 14:51
S79	539	(381/74).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/11/20 14:51
S80	311	(348/588).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/11/20 14:51
S81	1392	(455/569.2,345).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/11/20 14:52
S82	1094	(381/86).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/11/20 14:52

## EAST Search History (1 Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	4	vehicle and ((output\$4 play\$3) near10 (audio music sound) near10 (headphone\$1 headset) near10 (rear back) near10 front near10 \$4speak\$3)	USPAT; UPAD	OR	OFF	2009/11/23 09:11

L4	0	"S77" and vehicle and ((output\$4 play\$3) near10 (audio music sound) near10 (headphone\$1 headset) near10 (rear back) near10 front near10 \$4speak\$3)	USPAT; UPAD	OR	OFF	2009/11/23 09:11
L5	0	"S78" and vehicle and ((output\$4 play\$3) near10 (audio music sound) near10 (headphone\$1 headset) near10 (rear back) near10 front near10 \$4speak\$3)	USPAT; UPAD	OR	OFF	2009/11/23 09:11
L6	0	"S79" and vehicle and ((output\$4 play\$3) near10 (audio music sound) near10 (headphone\$1 headset) near10 (rear back) near10 front near10 \$4speak\$3)	USPAT; UPAD	OR	OFF	2009/11/23 09:11
L7	0	"S80" and vehicle and ((output\$4 play\$3) near10 (audio music sound) near10 (headphone\$1 headset) near10 (rear back) near10 front near10 \$4speak\$3)	USPAT; UPAD	OR	OFF	2009/11/23 09:12
L8	0	"S81" and vehicle and ((output\$4 play\$3) near10 (audio music sound) near10 (headphone\$1 headset) near10 (rear back) near10 front near10 \$4speak\$3)	USPAT; UPAD	OR	OFF	2009/11/23 09:12
L9	4	L3 and (simultaneously concurrently)	USPAT; UPAD	OR	OFF	2009/11/23 09:15

11/ 23/ 2009 9:28:42 AM

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